

## **ABSTRACT**

The present invention is a real-time three-dimensional image processing system and a method with non-parallel optical axis cameras thereof which is a system for calculating a position and a form in a three-dimensional space, wherein  
5 an angle between a pair of non-parallel optical axis, that is, an angle between a pair of cameras, is controlled by far and near distances so as to measure a subject in an optimum state, thereby expanding an observable field of view, and a system parameter is differently set according to an angle between the optical  
10 axis, thereby maximizing an image matching.

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